

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
17 July 2003 (17.07.2003)

PCT

(10) International Publication Number  
**WO 03/057732 A2**

(51) International Patent Classification<sup>7</sup>: C07K 16/00

(21) International Application Number: PCT/CA03/00044

(22) International Filing Date: 14 January 2003 (14.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2,368,708	14 January 2002 (14.01.2002)	CA
PCT/CA02/00317	11 March 2002 (11.03.2002)	CA
2,397,169	13 August 2002 (13.08.2002)	CA
2,402,930	19 September 2002 (19.09.2002)	CA

(71) Applicant and

(72) Inventor: HERMAN, William [CA/CA]; 18 Gailcrest Circle, Thornhill, Ontario L4J 5V2 (CA).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: TARGETED LIGANDS

(57) Abstract: The invention contemplates a composition containing a multispecific ligand containing at least a first ligand binding moiety and a second ligand binding moiety. The first ligand binding moiety specifically binds with a pre-selected first affinity to at least a first ligand. The first ligand has a first biodistribution. The second ligand binding moiety specifically binds with a pre-selected affinity to at least a second ligand. The second ligand has a second biodistribution. The affinity of first and second ligand binding moieties are selected to bias the biodistribution of the multispecific ligand in favour of a selected location of one or both of the ligands.

WO 03/057732 A2